

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	10/554655	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/15 20:59
S2	327	(378/53).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/11/15 21:03
S3	254	(378/52).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/11/15 21:04
S4	97	(378/47).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/11/15 21:07
S5	1	("4228353").PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/05/16 19:41
S7	1	("4228353").PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/04/21 19:50
S8	1	("4868856").PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/05/16 19:45
S9	337	(378/53).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/05/16 19:50
S15	2167563	((mixture slurry medium fluid slug flow)(multi\$4 adj (phase component content)) (multi?phase multiphase) (volume adj fraction)) same (monitor\$4 analy\$5 determin\$5 identif\$5 measur\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 08:41
S16	31085	S15 same (x?ray x-ray)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 14:47
S17	229578	((((mixture slurry medium fluid slug flow)(multi\$4 adj (phase component content)) (multi?phase multiphase) (volume adj fraction)) same (monitor\$4 analy\$5 determin\$5 identif\$5 measur\$4)).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 14:14
S18	759	((((mixture slurry medium fluid slug flow)(multi\$4 adj (phase component content)) (multi?phase multiphase) (volume adj fraction)) same (monitor\$4 analy\$5 determin\$5 identif\$5 measur\$4) same (x?ray x-ray)).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 14:51
S24	1202789	((mixture slurry medium fluid slug flow)(multi\$4 adj (phase component content)) (multi?phase multiphase) (volume adj fraction)) with (monitor\$4 analy\$5 determin\$5 identif\$5 measur\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 17:30

## EAST Search History

S28	683772	(flow near2 (velocity viscosity rate movement))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 14:52
S29	146964	S24 with S28	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 14:54
S30	202	S29 and "378"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 14:54
S31	9	("3100841"   "3652857"   "3654458"   "3784827"   "4369368"   "4428839"   "4471223"   "4661700").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/06 15:33
S32	10	("4205230"   "4210809"   "4228353"   "4520677"   "4539649"   "4683759"   "4835390"   "5025160"   "5121639"   "5287752").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/06 15:36
S33	493028	((mixture slurry medium fluid slug flow)(multi\$4 adj (phase component content)) (multi?phase multiphase) (volume adj fraction)) same (monitor\$4 analy\$5 determin\$5 identif\$5 measur\$4) same (scan\$4 slice project\$4 data)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 18:15
S34	136491	((mixture slurry medium fluid slug flow)(multi\$4 adj (phase component content)) (multi?phase multiphase) (volume adj fraction)) with (monitor\$4 analy\$5 determin\$5 identif\$5 measur\$4) with (scan\$4 slice project\$4 data)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 17:33
S35	35571	((((mixture slurry medium fluid slug flow)(multi\$4 adj (phase component content)) (multi?phase multiphase) (volume adj fraction)) with (monitor\$4 analy\$5 determin\$5 identif\$5 measur\$4) with (scan\$4 slice project\$4 data)).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 17:34
S36	196	S35 and "378"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 17:46
S37	3216	(378/51,52,53,54,55,56,57,58,59,62).CCLS..	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/06/06 17:48
S38	750	((((mixture slurry medium fluid slug flow)(multi\$4 adj (phase component content)) (multi?phase multiphase) (volume adj fraction)) same (monitor\$4 analy\$5 determin\$5 identif\$5 measur\$4)) and S37	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 19:01

## EAST Search History

S39	525	((mixture slurry medium fluid slug flow)(multi\$4 adj (phase component content)) (multi?phase multiphase) (volume adj fraction)) with (monitor\$4 analy\$5 determin\$5 identif\$5 measur\$4)) and S37	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 18:05
S40	55	((("20060203961") or ("4798252") or ("5969228") or ("6444419") or ("6465629") or ("4269514") or ("4413182") or ("5231462") or ("5256043") or ("5447077") or ("5465873") or ("5568883") or ("5923165") or ("5998224") or ("6294342") or ("6312393") or ("20040095568") or ("4477483") or ("4514495") or ("4517292") or ("4594237") or ("5229288") or ("5441611") or ("5779142") or ("3586854") or ("3917413") or ("4020830") or ("4040908") or ("4167338") or ("4097338") or ("4244231") or ("4250253") or ("4251360") or ("4253847") or ("4257257") or ("4266425") or ("4266877") or ("4269682") or ("4271001") or ("4288162") or ("4290909") or ("4292960") or ("4298901") or ("4300047") or ("4306877") or ("4309110") or ("4319979") or ("4321577") or ("4322680") or ("4327573") or ("").pn.)).PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/06/06 17:52
S41	167	(378/10).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/06/06 18:05
S42	161	(378/9).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/06/06 18:09
S43	309	S41 S42	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 18:09
S44	31	((mixture slurry medium fluid slug flow)(multi\$4 adj (phase component content)) (multi?phase multiphase) (volume adj fraction)) same (monitor\$4 analy\$5 determin\$5 identif\$5 measur\$4)) and S43	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 18:06
S45	19	S41 and S42	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 18:10
S46	123	((mixture slurry medium fluid slug flow)(multi\$4 adj (phase component content)) (multi?phase multiphase) (volume adj fraction)) and S43	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 18:19
S47	23	(pipe conduit) and S43	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 18:19
S48	7	("4866745").URPN.	USPAT	OR	ON	2007/06/06 18:21
S49	4	("4223225"   "4274005"   "4289969"   "4592079").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/06 18:21

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S50	4	("4223225").URPN.	USPAT	OR	ON	2007/06/06 18:23
S51	1	("4868856").PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/06/06 18:37
S52	11587	(monitor\$4 analy\$5 determin\$5 identif\$5 measur\$4) with (volume fraction) with (velocity movement)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 19:02
S53	167	(378/10).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/06/06 19:03
S54	161	(378/9).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/06/06 19:03
S55	309	S53 S54	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 19:03
S56	2	S52 and S55	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 19:03
S57	3216	(378/51,52,53,54,55,56,57,58,59,62).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/06/06 19:04
S58	12	S52 and S57	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 19:24
S59	131	((phase near2 (volume fraction)) (volume near2 fraction)) and "378"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 20:25
S60	19	("5689540").URPN.	USPAT	OR	ON	2007/06/06 19:31
S61	86928	((oil hydrocarbon) same (water liquid fluid) same (gas air)) same (volume fraction)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 20:25
S62	3216	(378/51,52,53,54,55,56,57,58,59,62).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/06/06 20:10
S63	167	(378/10).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/06/06 20:11
S64	161	(378/9).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/06/06 20:11

## EAST Search History

S65	309	S63 S64	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 20:11
S66	16	S61 and S62	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 20:11
S67	0	S61 and S65	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 20:11
S68	5	("4200789"   "4352288"   "4365154"   "4618975"   "5654551").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/06 20:13
S69	3	("5854820").URPN.	USPAT	OR	ON	2007/06/06 20:14
S70	152	((phase near2 (volume fraction)) (volume near2 fraction)) and "382"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 20:25
S71	1	((oil hydrocarbon) same (water liquid fluid) same (gas air)) same (volume fraction)) and "382"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 20:26
S72	202	((oil hydrocarbon) and (water liquid fluid) and (gas air)) and (volume fraction)) and "382"/\$. ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 08:21
S73	396325	((volume void space inclusion pocket greyscale grey?scale) same (imag\$4 scan\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 08:26
S74	2169587	((mixture slurry medium fluid slug flow)(multi\$4 adj (phase component content)) (multi?phase multiphase) (volume adj fraction)) same (monitor\$4 analy\$5 determin\$5 identif\$5 measur\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 08:28
S75	22912	S73 same S74	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 08:20

## EAST Search History

S78	503980	((oil hydrocarbon) and (water liquid fluid) and (gas air)) and (volume fraction))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 08:22
S79	3630	S75 and S78	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 08:22
S80	31	S79 and "378"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 08:23
S81	28	S79 and "382"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 08:24
S82	1727156	((volume void space inclusion pocket greyscale grey?scale) and (imag\$4 scan\$4 data data?set dataset))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 08:42
S83	3740080	((mixture slurry medium fluid slug flow)(multi\$4 adj (phase component content)) (multi?phase multiphase) (volume adj fraction)) and (monitor\$4 analy\$5 determin\$5 identif\$5 measur\$4 (real near2 time))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 08:30
S84	1727156	((volume void space inclusion pocket greyscale grey?scale) and (imag\$4 scan\$4 data data?set dataset))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 08:31
S85	779955	((volume void space inclusion pocket greyscale grey?scale fraction (volume near2 fraction)) same (imag\$4 scan\$4 data data?set dataset reconstruct\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 08:44

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1822141	((mixture slurry fluid slug flow)(multi\$4 adj (phase component content)) (multi?phase multiphase) (volume adj fraction)) same (monitor\$4 analy\$5 determin\$5 identif\$5 measur\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 08:50
S2	779955	((volume void space inclusion pocket greyscale grey?scale fraction (volume near2 fraction)) same (imag\$4 scan\$4 data data?set dataset reconstruct\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 08:51
S6	4360071	(pipe conduit vessel cylinder)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 08:52
S7	8029	S1 same S2 same S6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 08:53
S8	47	S7 and "378"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 09:20
S10	6191	image with void	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 09:21
S11	86	S10 and "378"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 09:23
S12	1822141	((mixture slurry fluid slug flow)(multi\$4 adj (phase component content)) (multi?phase multiphase) (volume adj fraction)) same (monitor\$4 analy\$5 determin\$5 identif\$5 measur\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 11:09
S13	779955	((volume void space inclusion pocket greyscale grey?scale fraction (volume near2 fraction)) same (imag\$4 scan\$4 data data?set dataset reconstruct\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 11:09
S14	4360071	(pipe conduit vessel cylinder)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 11:09

## EAST Search History

S15	8029	S12 same S13 same S14	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 11:09
S16	45	S15 and "382"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 11:30
S17	309	(378/9,10).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2007/06/07 11:30
S18	3	(multiphase multi?phase) and S17	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/07 11:31